

# **Univar Portland - NW Yeon Site**

Bi-Monthly Meeting – February 12, 2019



# **Meeting Agenda**

Safety Share
ICM Operations and Performance
Gravel Zone Investigation
1,4-Dioxane Sampling
Stormwater Source Control Measure Work Plan
EPA Comments on 2018 Q4 Progress Report
Financial Assurance
Next Steps and Action Items
Adjourn



### **Safety Share**

### Winter Weather and ICM Operations

Routine maintenance completed on air stripper Friday, 2/8. System was shutdown through weekend to avoid potential weather related issues.

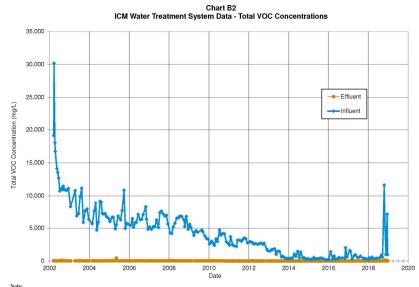
- Best management practice is to avoid system restarts on Fridays.
- Sub-zero temperature related maintenance.
- Hazardous driving conditions results in restricted travel.





### **ICM Operations and Performance**

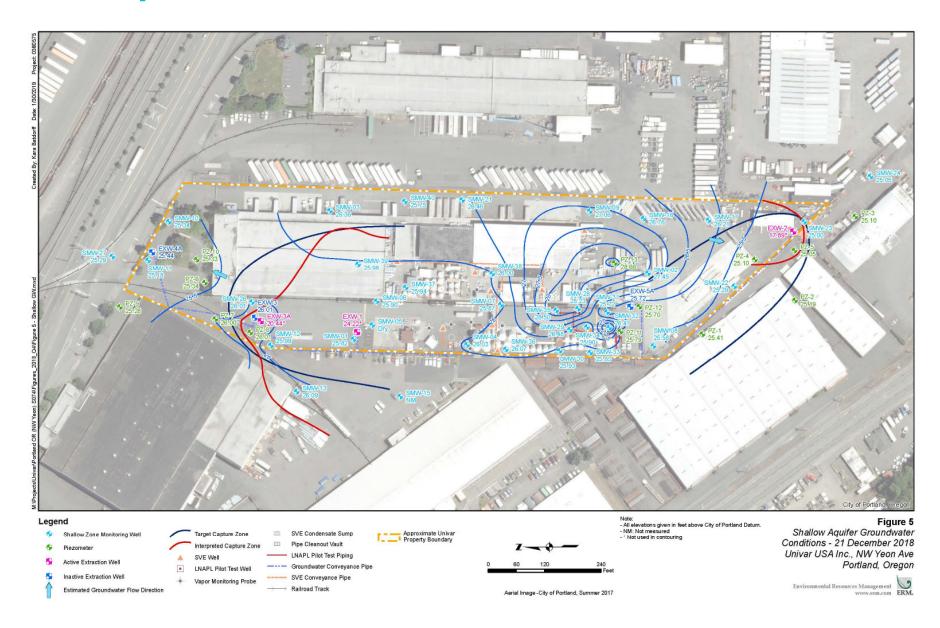
- Transition pumping scenario in progress. Currently operating all EXWs.
- WTS compliance in compliance
   December 2018 and January
   2019.
- Improved hydraulic capture at north and south property boundaries.



Note:
Total VOC concentrations below laboratory method reporting limits (MRLs) are represented by hollow data points



# **ICM Operations and Performance**





- Gravel Zone Monitoring Well
- Proposed Gravel Zone Monitoring We
- Historical Geoprobe
- -- SVE Conveyance Pipe
- LNAPL Recovery Equipment Pad
- Aerial Image City of Portland, Summer 2016

Groundwater Monitoring Well Network Univar USA Inc, NW Yeon Ave Portland, Oregon



# Debris-flow Lower drainage basin Fault scarp Lobe, lobes, and gullies Clast-poor debris flow Active fault trace Glast-poor debris flow Active fault depositional lobe Recent debris-flow Recent debris-flow Glast-poor debris-flow Abandoned lobe: gullying, winnowing of fines to produce gravel mantles

### Debris-flow fan – idealised long-section

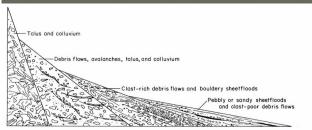
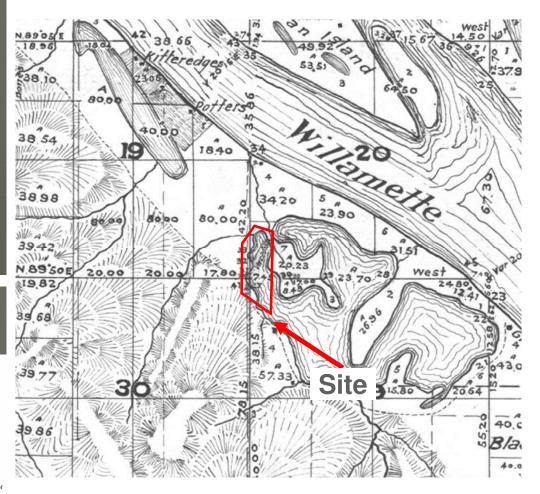
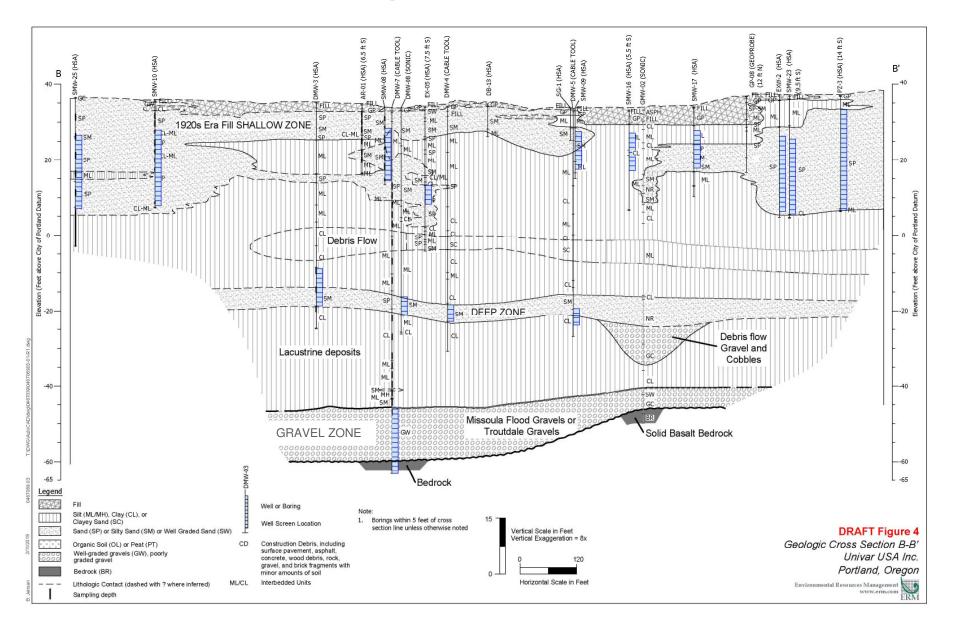


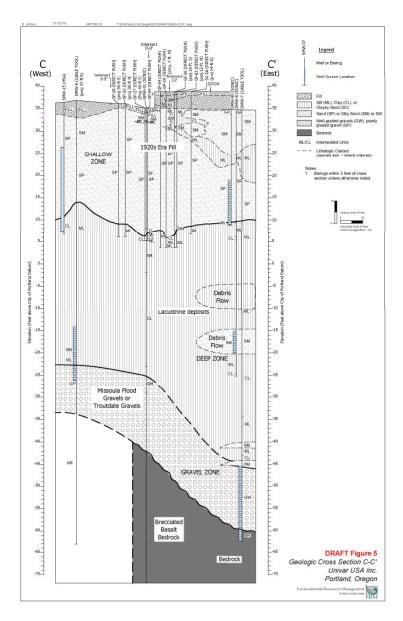
Fig. 3.7. Internal facies partitioning within debris-flow fans. Note decreasing clast size, improved sorting, and development of stratification downflow. (Derived from Blair and McPherson 1993)







- > Next steps
  - Install soil boring at GMW-03 (adjacent to DMW-06)
  - If lithology similar to GMW-01, install wel at GMW-03 in Gravel Zone above bedrock.
  - If lithology not similar to GMW-01, install well at GMW-01.
  - Install well at GMW-02.





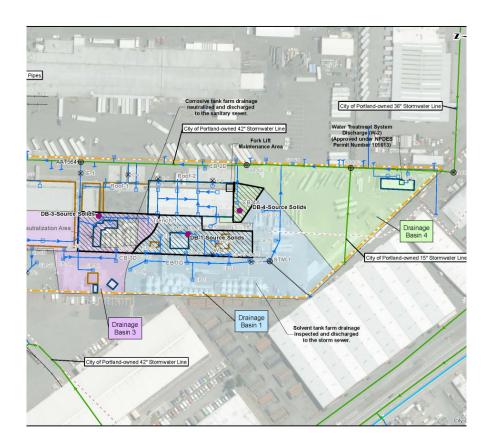
### 1,4-Dioxane Sampling

- > EPA-approved sampling
  - Collect dry weather flow sample at COP owned 42-inch storm pipe
  - Collect samples at EXW-1, EXW-5a, and WTS effluent to characterize 1,4-dioxane following implementation of ICM modifications.
- Completed 1,4-dioxane sampling in January 2019. Draft results (pending validation) summarized as follows:
  - 3.1 μg/L at EXW-1
  - 119 μg/L at EXW-5a
  - 64.3 μg/L at W-2
  - Non-detect (<1.0 μg/L) in dry-weather flow at AAT564
- Submittal to EPA in 2019 Q1 Progress Report.



### **Stormwater SCM Work Plan**

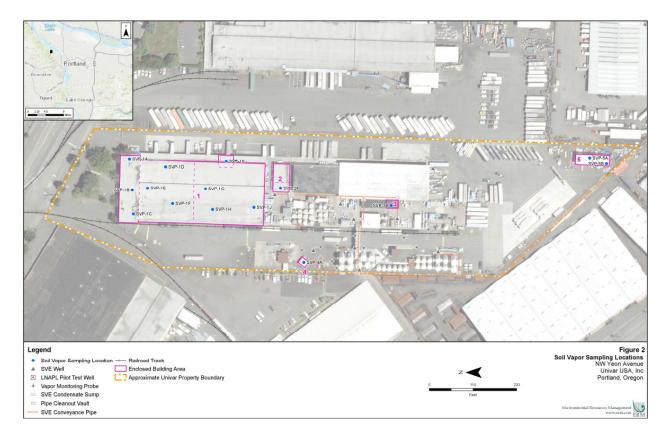
- Site stormwater BMPs in progress
  - Catch basin cleanouts
  - Sweeping
  - Additional BMP implemented to modify trench drain for solids removal.
- Completed source tracing activities
  - Drainage basin survey
  - Wipe sampling
  - Solids sampling
- Stormwater sampling pending qualifying rain event;
  - Attempted sampling on 2/1/2019





### **VI Evaluation**

- Sample results at or below the Oregon Risk Based Concentrations (RBCs) for soil vapor.
- > Phase I memorandum in draft. Submittal to EPA in Q1 2019.





# **EPA Comments on 2018 Q4 Progress Report**

- > EPA Comments
  - Adequacy of Hydraulic Control
  - Gravel Zone Investigation
  - 1,4-Dioxane Sampling
  - Update to the 1989 QAPP
  - Mark-up of the report?
- > Next steps



### **Financial Assurance**

- Revised Financial Assurance Bond
  - EPA approved
  - Univar submitted
- 2019 Updated Cost Estimate
  - Extension request approved by EPA
  - 2019 update pending release of 2017 Q4 price deflators



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10

1200 Sixth Avenue, Suite 155 Seattle, WA 98101-3140

> OFFICE OF AIR AND WASTE

January 30, 2019

Mr. Steven Roach Remediation Manager Univar USA Inc. 5200 Bandon Court Dublin, Ohio 43016

Re: Approval of Request for an Extension to Due date for the 2019 Updated Financial Assurance

Univar USA Inc. Portland, Oregon

Administrative Order on Consent under the Resource Conservation and Recovery Act Docket

No. 1087-10-18-3008(h) (Order) EPA ID No. ORD 00922 7398

Dear Mr. Roach:

On January 30, 2019, the U.S. Environmental Protection Agency received an email extension request for the update to the financial assurance cost estimate for the Univar Portland facility. The extension is needed to allow time for release of the 2018 Q4 implicit price deflators for gross domestic product from the Bureau of Economic Analysis. In accordance with paragraph 4.1 of the 2007 amendment to the Order, the extension is hereby approved.



### **Next Steps and Action Items**

- Performance monitoring and compliance sampling.
- ICM optimization (increase blower capacity and air stripping efficiency).
- Transition pumping scenario (per ICM Modification Request).
- > 2019 Q1 groundwater monitoring (completed week of 2/4).
- Gravel Zone Investigation.
- > Vapor Intrusion Evaluation.
- > Stormwater SCM Work Plan.



### **Questions**

> Next meeting scheduled for April 2019.

